


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicants: SUMIYA, et al.
Application No.: 10/684,413
Filed: October 15, 2003
For: A DEPTH OF INTERACTION DETECTOR WITH UNIFORM PULSE-HEIGHT
Examiner: TBD
Group: TBD

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97 AND 1.98**

Mail Stop DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

January 12, 2004

Sir:

Pursuant to Applicants' duty of disclosure, enclosed please find copies of documents to be considered during examination of the above-identified application. Also enclosed is a Form, substantially equivalent to Form PTO-1449, listing the enclosed documents.

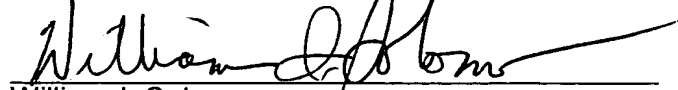
This Information Disclosure Statement is being submitted within three months of the filing of the above-identified application. Accordingly, requirements of 37 CFR § 1.97(b) are satisfied.

In view of the foregoing, it is respectfully submitted that all applicable requirements of 37 CFR § 1.97 and § 1.98 have been satisfied, in connection with each of the documents listed on the enclosed Form. Accordingly, consideration of the listed documents, upon examination of the above-identified application, is respectfully requested.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account No. 01-2135 (referencing docket no. 473.43213X00), and please credit any excess fees to such deposit account.

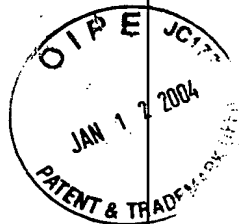
Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

A handwritten signature in black ink, appearing to read "William I. Solomon", written over a horizontal line.

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| Form PTO-1449 | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | ATTY. DKT. NO. 473.43213X00 | APPLICATION NO. 10/684,413 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT Sumiya | |
| | | FILING DATE October 15, 2003 | GROUP TBD |

U.S. PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date |
|------------------|-----------------|------|------|-------|----------|-------------|
| AA | | | | | | |
| AB | | | | | | |
| AC | | | | | | |
| AD | | | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Country | Class | Subclass | Translation/ Abstracts | |
|------------------|-----------------|------|---------|-------|----------|---------------------------|----|
| | | | | | | Yes | No |
| AE | | | | | | | |
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| AK | | | | | | | |
| AL | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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|----|--|
| AM | S. Yamamoto, et al., "A GSO depth of interaction detector for PET", IEEE Transactions on Nuclear Science, Vol. 45, No. 3, June 1998, pages 1078-1082 |
| AN | C. Moisan, et al., "Segmented LSO Crystals for Depth-Of-Interaction Encoding in PET", IEEE Transactions on Nuclear Science, Vol. 45, No. 6, December 1998, pages 3030-3035 |
| AO | R. Miyaoka, et al., "Design of a Depth of Interaction (DOI) PET Detector Module", IEEE Transactions on Nuclear Science, Vol. 45, No. 3, June 1998, pages 1069-1073 |

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|-----------------|------------------------|
| Examiner | Date Considered |
|-----------------|------------------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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